

NPWD-CD11D.RTD

Double inputs, double outputs

Input: RTD

Output: 4 ~ 20 mA

This temperature transmitter converts the thermal resistance signals to 4~20mA signals. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. The self-test function is also available on this device. Calibrate the apparatus or modify parameters by using a handheld programmer.

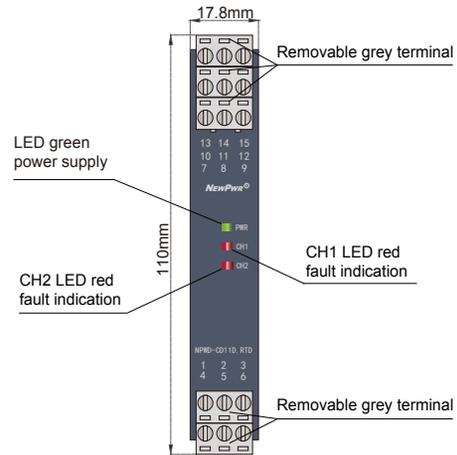
Parameters

Power supply:	18 V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	1.2 W
Input signal:	RTD
Line resistance:	≤ 20 Ω per line (RTD)
Output signal:	4 ~ 20 mA (sink/source)
Load resistance:	source: $R_L \leq 550\Omega$ sink: $R_L < [(U-3)/0.02]\Omega$; U: Loop power supply
Temperature drift:	30 ppm/°C
Response time:	≤ 500 ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 1500 V AC (Input/Output/Power supply)
Insulation resistance:	≥ 100 MΩ (Input/Output/Power supply)
Operation temperature:	-20 °C ~ +60 °C
Storage temperature:	-40 °C ~ +80 °C
Dimension:	17.8 mm (W) × 110 mm (H) × 117 mm (D)
Output states:	Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode.

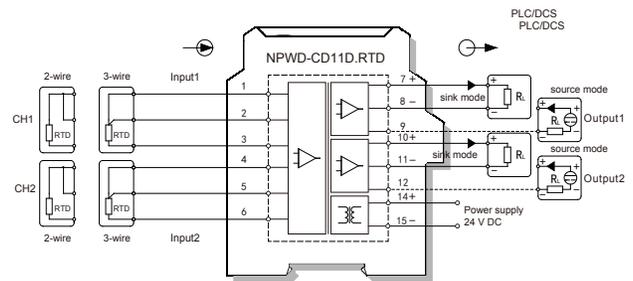
Conversion accuracy list (25°C±2°C)

Standards	Type	Range	Min.span/Accuracy
IEC 60751	Pt100(α=0.00385)	-200~850°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Pt100(α=0.00391)	-200~850°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu50(α=0.00428)	-180~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
GOST 6651	Cu100(α=0.00428)	-180~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu50(α=0.00426)	-50~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu100(α=0.00426)	-50~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.

Note: Other sensor input types can be ordered.



Wiring diagram



Model rules

NPWD-CD□□D□.RTD

PB : BUS powered
Default: Terminals powered

The second output signal^{note1}

The first output signal^{note1}

note1 : output signal

Number	Output signal
1	4 ~ 20 mA
2	1 ~ 5 V
3	0 ~ 10 mA
4	0 ~ 5 V
5	0 ~ 10 V
6	0 ~ 20 mA